



## SRCAP gene

Snf2 related CREBBP activator protein

### Normal Function

The *SRCAP* gene provides instructions for making a protein called Snf2-related CREBBP activator protein, or SARCAP. SARCAP is one of several proteins that help activate a gene called *CREBBP*. The protein produced from the *CREBBP* gene, called CREB binding protein, plays a key role in regulating cell growth and division and is important for normal development.

### Health Conditions Related to Genetic Changes

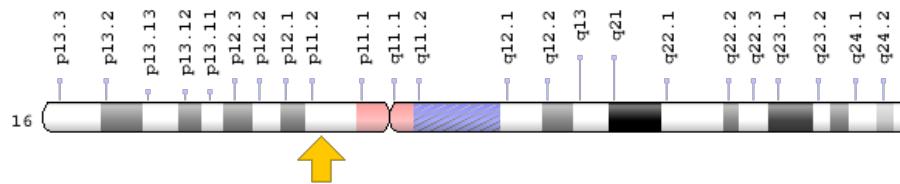
#### Floating-Harbor syndrome

At least five *SRCAP* gene mutations have been identified in people with Floating-Harbor syndrome, a disorder involving short stature, slowing of the mineralization of the bones (delayed bone age), delayed speech development, and characteristic facial features. The *SRCAP* gene mutations that cause Floating-Harbor syndrome may result in an altered protein that interferes with normal activation of the *CREBBP* gene, resulting in problems in development. However, the relationship between *SRCAP* gene mutations and the specific signs and symptoms of Floating-Harbor syndrome is unknown.

### Chromosomal Location

Cytogenetic Location: 16p11.2, which is the short (p) arm of chromosome 16 at position 11.2

Molecular Location: base pairs 30,699,141 to 30,740,129 on chromosome 16 (Homo sapiens Annotation Release 108, GRCh38.p7) (NCBI)



Credit: Genome Decoration Page/NCBI

## **Other Names for This Gene**

- domino homolog 2
- DOMO1
- EAF1
- FLHS
- helicase SRCAP
- KIAA0309
- Snf2-related CBP activator protein
- Snf2-related CREBBP activator protein
- SRCAP\_HUMAN
- Swi2/Snf2-related ATPase homolog, domino homolog 1
- SWR1

## **Additional Information & Resources**

### GeneReviews

- Floating-Harbor Syndrome  
<https://www.ncbi.nlm.nih.gov/books/NBK114458>

### Scientific Articles on PubMed

- PubMed  
<https://www.ncbi.nlm.nih.gov/pubmed?term=%28SRCAP%5BTIAB%5D%29+OR+%28EAF1%5BTIAB%5D%29+OR+%28FLHS%5BTIAB%5D%29+OR+%28Snf2-related+CBP+activator+protein%5BTIAB%5D%29%29+AND+%28%28Genes%5BMH%5D%29+OR+%28Genetic+Phenomena%5BMH%5D%29%29+AND+english%5Bla%5D+AND+human%5Bmh%5D+AND+%22last+1800+days%22%5Bdp%5D>

### OMIM

- SNF2-RELATED CBP ACTIVATOR PROTEIN  
<http://omim.org/entry/611421>

### Research Resources

- Atlas of Genetics and Cytogenetics in Oncology and Haematology  
[http://atlasgeneticsoncology.org/Genes/GC\\_SRCAP.html](http://atlasgeneticsoncology.org/Genes/GC_SRCAP.html)
- ClinVar  
<https://www.ncbi.nlm.nih.gov/clinvar?term=SRCAP%5Bgene%5D>

- HGNC Gene Family: SRCAP complex  
<http://www.genenames.org/cgi-bin/genefamilies/set/1329>
- HGNC Gene Symbol Report  
[http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?q=data/hgnc\\_data.php&hgnc\\_id=16974](http://www.genenames.org/cgi-bin/gene_symbol_report?q=data/hgnc_data.php&hgnc_id=16974)
- NCBI Gene  
<https://www.ncbi.nlm.nih.gov/gene/10847>
- UniProt  
<http://www.uniprot.org/uniprot/Q6ZRS2>

## Sources for This Summary

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*Free article on PubMed Central:* <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3276662/>
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- Wong MM, Cox LK, Chrivia JC. The chromatin remodeling protein, SRCAP, is critical for deposition of the histone variant H2A.Z at promoters. *J Biol Chem.* 2007 Sep 7;282(36):26132-9. Epub 2007 Jul 8.  
*Citation on PubMed:* <https://www.ncbi.nlm.nih.gov/pubmed/17617668>

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